Work Order ID 82206 \*82206\* Page 1 March-26-12 8:50:21 AM Item ID: D212-664-201TRN Accept \*N900040100\* Setup Start **Revision ID:** Crosstube Turning Detail Item Name: **Start Date:** 26/03/2012 Start Oty: 1.00 **Cust Item ID: Required Date:** 09/04/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: MUT Date: \2\03\26 Tooling: **Approvals:** Date: Stop QC: SPC (Y/N): Date: Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID Description Run Hours** Qty Code Number Qty Stamp Draw Nbr **Revision Nbr** D212-664-241 Rev D 100 0.00 MORI SEIKI CNC LATHE LARGE \*100\* Mori Seiki 0.00 Memo Mori Seiki CNC Lathe Large 1-Fill tube with sand & install plugs DT8534 on both ends as per Folio FA114 2-Turn first side as per Folio FA114 3-Blend transition lines only, \*\*do not sand whole tube\*\*: FOLIO REV: DWG REV: \*Use mill bastard file, brush file repeatedly with file card. \*Do not use sandpaper coarser than 320 grit. 110 QC1- Inspect dimensions to dimension sheet 0.00 QC 0.00 Memo Quality Control

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W/O:			V	<b>VORK ORDER CHANGES</b>				,	.a. ,
DATE	STEP	PRO	CEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Work Orde		206		*822	206*							Page 2
Item ID: Revision ID:	D212-664-2	01TRN	3	Accept	*N900	040	1100	ገ*	Setup	Start	*N	S1*
Item Name:	Crosstube Tur	rning Detail								Stop	*NI	S2*
Start Date: Required Date: Reference:	26/03/2012 09/04/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1 *1		Cust Item 1 Customer:	D:						. 12
Approvals:	Process Pla	ın:	Date:	Tooling:	D	ate:	_		Run	Start	*N	R1*
	QC:		Date:	SPC (Y/N):	D	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	t Rej		Reject Number	Insp. Stamp
*120*		MORI SEIKI CNC LATI	HE LARGE					/	r	8		
Mori Seiki Mori Seiki CNC Lat	he Large	2-Blend tran *Use mill ba *Do not use FOLIO REV DWG REV: 3-Remove sa	stard file, brush file sandpaper coarser t	do not sand whole tube**: repeatedly with file card. nan 320 grit.					- <i>Y</i>			man. 12/05/c
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0.00

QC1- Inspect dimensions to dimension sheet

Memo

\*130\*

Quality Control

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### **Dart Aerospace Ltd**

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Work Orde		206		Page 3					
Item ID: Revision ID:	D212-664-20			Accept	*N90004	10100*	Setup	Start	*NS1*
Item Name: Start Date: Required Date: Reference:	Crosstube Tur 26/03/2012 09/04/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1 *1		Cust Item ID: Customer:			Stop	*NS2*
Approvals:	Process Pla	n:	Date:	Tooling: .	Date:		Run	Start	*NR1*
	QC:		Date:	SPC (Y/N):	Date: _			Stop	*NR2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID To	ol # Plan Acco	ept Re Qt		Reject Insp. Number Stamp
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*140* QC Quality Control		Мето		0.00			<u> </u>	12	-5-3
145				0.00					
*145* Crosstubes		Memo		0.00					Th
Crosstubes			LY TRANSITION L	INES SMOOTH LONGITUDE W	/AY.				12-0 <b>5</b> -0-
150		Crosstubes Chemical Con	nversion	0.00					
*150* HandFXtube	sstubes	Memo		0.00					Zm .
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## **Dart Aerospace Ltd**

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Work Order ID  March-26-12 8:50:21 AM			*822	206*	Page 4
Revision ID:	4-201TRN Turning Detail		Accept	*N900040100	* Setup Start *NS1* Stop *NS2*
Start Date: 26/03/20 Required Date: 09/04/20 Reference:		*1* *1*		Cust Item ID: Customer:	
	Plan:		Tooling: SPC (Y/N):	Date:	Run Start *NR1* Stop *NR2*
Sequence ID/ Work Center ID  160 *160* QC Quality Control	Operation Description  3- Inspect Part Finish  CC  Memo		Set Up/ Run Hours 0.00		Accept Reject Reject Insp. Qty Qty Number Stamp  12-5
*170* Packaging Packaging	Packaging  Memo  Identify and Location:	stock/in kanban rack	0.00	-	1 9 manl 12/05/07
*180* QC Quality Control	QC21- Final Inspection -	Work Order Release	0.00		12/5/84

pros-7

# **Dart Aerospace Ltd** W/O: 82206 **WORK ORDER CHANGES Approval Approval PROCEDURE CHANGE STEP** DATE By **Date** Qty Chief Eng / QC Inspector Prod Mgr Stoubrood Part No: D 212-664-2017RN PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_ Resolution: \_\_\_\_\_ Disposition: \_\_\_\_ QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_

NCR:								
		Description of NC		Corrective Action Section B	Verification	Approval	Ammercal	
DATE	STEP	Section A	Initial Chief Eng	Action Description  Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector
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### **Picklist Print**

March-26-12 8:50:26 AM

Work Order ID: 82206

\*82206\*

D212-664-201TRN

Parent Item Name: Crosstube Turning Detail

\*D212-664-201TRN\*

Start Date: 26/03/2012

**Required Date:** 09/04/2012

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

Parent Item:

IPP Rev:A 08-03-06 new issue DD verified by:ec IPP Rev B 08.04.02 Removed polish EC verified DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6006-129		Manufactured	No			120	Each	12.0000	i	1			
*D6006-13	20*								**	•		•	

Crosstube Material

Location	Loc Oty	Loc Code
LG	12	
23970	2	
2655 <b>)</b>	9	
34690	1	

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## **Dart Aerospace Ltd**

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Item	Qty -241	Qty -241B	Part Number	Description
1	Х		D212-664-241	CROSSTUBE ASSEMBLY (205/212 HIGH AFT)
2		Х	D212-664-241B	CROSSTUBE ASSEMBLY (214 HIGH AFT)
3	1	1	D6006-129	CROSSTUBE
4	2	2	D2940-1	SUPPORT
5	4	4	D3595-063-530	RUBBER CUSHION
6	4	4	MS21920-28	CLAMP (OR MS21920-30)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II. CLASS 2 ADHESIVE)

#### GENERAL NOTES:

- 1) MATERIAL: MANUFACTURED FROM D6006-129 FINISHED LENGTH = 124.362+0.020
- CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
- PAINT OUTSIDE PER DART QSI 005 4.2 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: D212-664-241 = 44.2 lbs (PER IIN-D212-664)
- D212-664-241B = 44.2 lbs (PER IIN-D212-664) PART IS SYMMETRIC ABOUT CENTERLINE.
- 9) RUN CUTTER OFF PART, BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 5 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-28 CLAMPS (OR -30) WITH D3595-063-530 RUBBER CUSHIONS TO SECURE THE D2940-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COP SUBJECT TO AMENDMENT WITHOUT NOTICE

WORK ORDER DZZOG MLJ 12/03/26

UNDER REVIEW

DEO ATTACHED

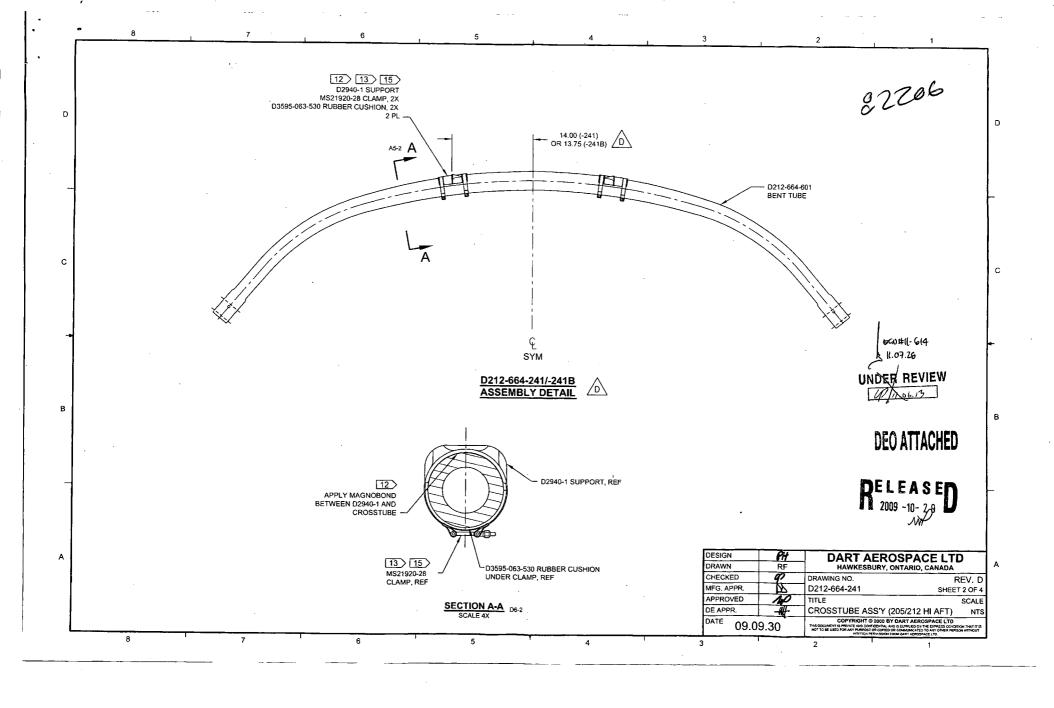
DESIGN DART AEROSPACE I				LTD	
REV.		DESCRIPTION	BY	DATE	
_ A	NEW ISSUE		PH	00.12.12	
В	ADD HOLES FOR C SKIDTUBES	ADD HOLES FOR COMPATABILITY WITH BHT/AA SKIDTUBES			
С		REMOVE -1009 ABRASION STRIP; ADD MAGNOBOND 6398, CUSHION, REVERSE CLAMPS			
D	REORGANIZED VIEW TO CURRENT STAND REMOVED REF & AD C6-3 & A8-3); RELOC	GENERAL NOTES/PART LIST; IS AND REFORMATTED DRAWING NARDS; ADD -241B (ZN D4-2, B4-2); D TOLERANCES (ZN D8-3 & C4-3, ATED FLAG #6 PER PAR 08-046 (ZN ING DETAIL & UPDATED TOLERANCE	RF	09.09.30	

DRAWN HAWKESBURY, ONTARIO, CANADA CHECKED DRAWING NO. REV. D MFG. APPR. D212-664-241 SHEET 1 OF 4 APPROVED TITLE SCALE DE APPR. CROSSTUBE ASS'Y (205/212 HI AFT) DATE COPYRIGHT @ 2000 BY DART AEROSPACE LTD 09.09.30

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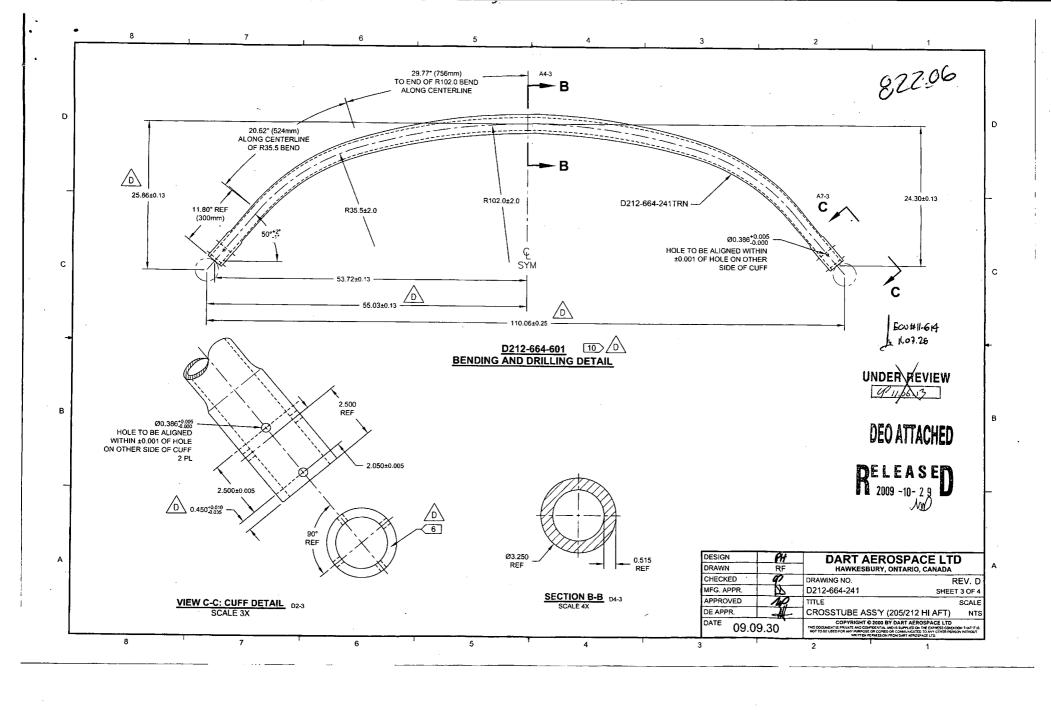
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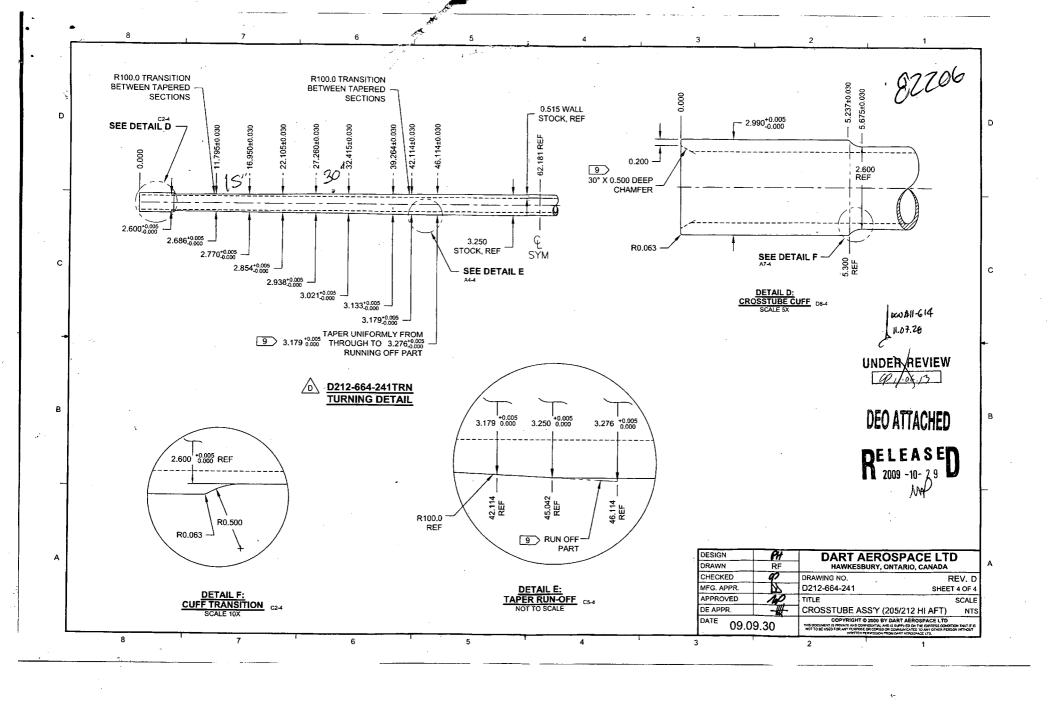


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DRAWING NO.	TITLE	REV. D	DART AEROSPACE LT	D.E.O. NO.	SHEET NO. SCALE
D212-664-241	CROSSTUBE ASSY	(205/212 HI AFT)	<b>ENGINEERING ORDER</b>	D212-664-241-D-1	SHEET 1 OF 2 NTS
DRAWN	K CHECKE	D ///	MFG. APPR.	APPROVED MP	DE APPR.
DATE 11.0	4.07 DATE	11.04.11	DATE /1.04.12	DATE 11/04/12	DATE 11-04.12

**PURPOSE:** 

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

**CHANGE:** 

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

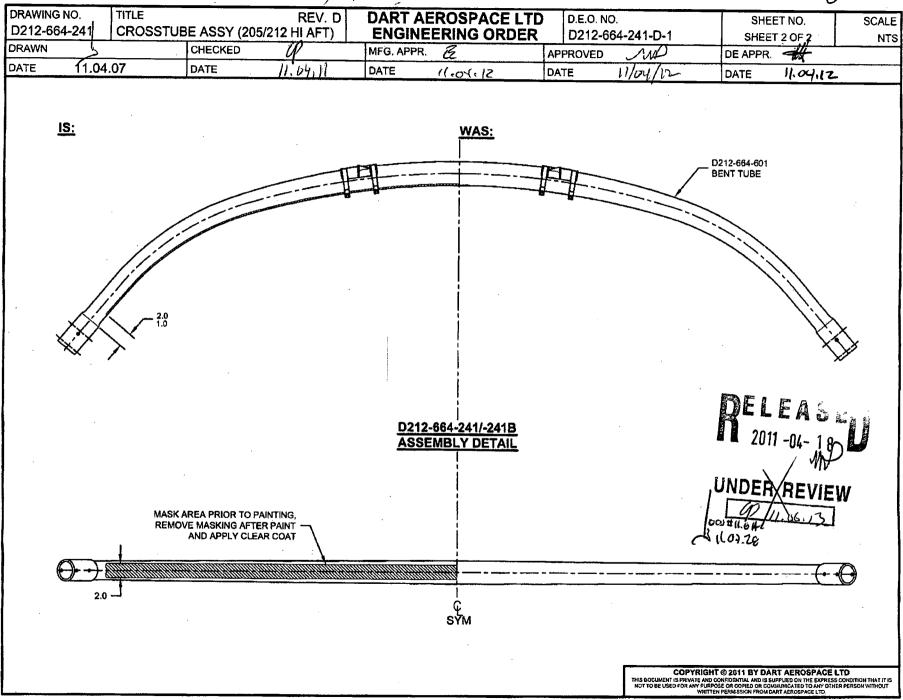
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

UNDER REVIEW

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W/O:			W	ORK ORDER CH	ANGES					,
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DRAWING NO.	TITLE	REV. D	DART AE	ROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
	CROSSTUBE ASS'Y (20	05/212 HI AFT)	ENGINE	RING ORDER	D212-664-241-D-2	SHEET 1 OF 1	NTS
DRAWN 97	CHECKED	<u>A&gt;S</u>	MFG. APPR.	/	APPROVED (M)	DE APPR.	
DATE 11.07	.15 DATE //.	07.20	DATE	1107.21	DATE 11/07/21	DATE 11-07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

### **CHANGE:**

IS:

item	Qty -241	Qty -241B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

### WAS:

7	A/R	A/R	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC: 299-947-100, TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

#### IS:

- 12) TO INSTALL D2940-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

### WAS:

- 12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 60 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES							
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Part No:		_ PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed	:	Date:

NCR:		W	ORK OR	DER NON-CONFORMANCE (	NCR)			
		Description of NC		Corrective Action Section B		Verification	Annuaval	Annuaval
DATE	STEP	Description of NC Section A	Initial Chief Eng		Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
- -		:						pt.
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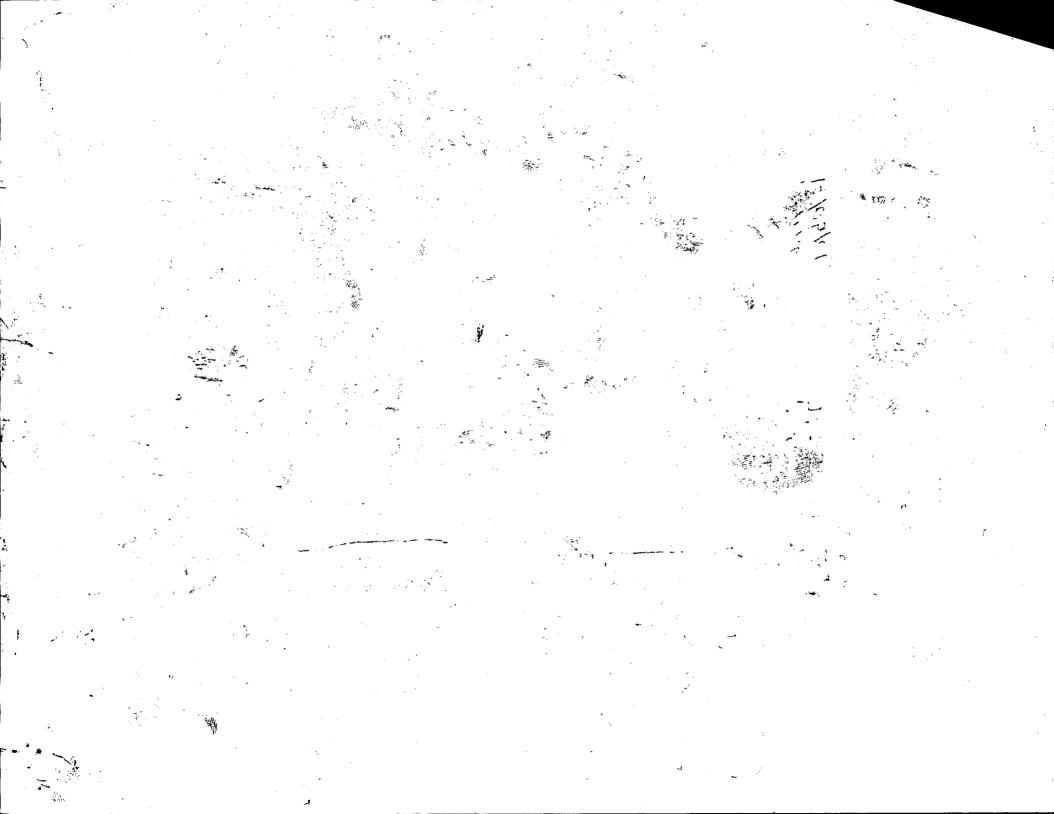
DART AEROSPACE LTD	Work Order:	82206
Description: Crosstube Assembly (205/212 High Aft)	Part Number:	D212-664-241
Inspection Dwg: D212-664-241 Rev: D		Page 1 of 1

# FIRST ARTICLE INSPECTION CHECKLIST

	spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	0.200	+/-0.010	.200			vern	CNC-08
Ī	R0.063	+/-0.010	-063	/	/	RG	
	2.990	+0.005/-0.000	7.986	an	V	vern	CWC-08
	5.237	+/-0.030	5,237	1		1	
Γ	2.600	+0.005/-0.000	2.601				
_	2.686	+0.005/-0.000	2.06			/	
E A	2.770	+0.005/-0.000	2.772				
SIDE	2.854	+0.005/-0.000	2.857				
<b>"</b>	2.938	+0.005/-0.000	294/3				
	3.021	+0.005/-0.000	3.029				
	3.133	+0.005/-0.000	3.135				· · · · · · · · · · · · · · · · · · ·
	3.179	+0.005/-0.000	3.182			ال	
		-			· · · · · · · · · · · · · · · · · · ·		
	0.200	+/-0.010	.200	/		vern	14506
Γ	R0.063	+/-0.010	.063			RG	CWC-04
	2.990	+0.005/-0.000	2.992			vern	CWCOS
	5.237	+/-0.030	5.237			1	
	2.600	+0.005/-0.000	2.665				
	2.686	+0.005/-0.000	2.665	/			-
<b>a</b> [	2.770	+0.005/-0.000	2.773	/			
SIDE	2.854	+0.005/-0.000	2,857	/			
<u></u>	2.938	+0.005/-0.000	2-939				
	3.021	+0.005/-0.000	3.024				<u> </u>
	3.133	+0.005/-0.000	3.137				
	3.179	+0.005/-0.000	3.182			4	
	124.362	+/-0.020	124.360			tare	FD-11
						-/·V	<del></del>
					_		<u> </u>

Measured by: MM, L	Audited by:	Preliminary Approval:	N/A
Date: 12/05/01	Date: 13-5-3	Date:	N/A

Date	Change	Revised by	Approved
05.04.27	New Issue (P/O D412-664-201)	KJ/JLM	
06.03.09	Tolerance for 5.237 was +/-0.001	KJ/JLM	
07.05.08	Dwg Rev. updated	KJ/JLM .	ia
10.08.03	Dimension 124.362 was 124.36	KJ del	120
	05.04.27 06.03.09 07.05.08	05.04.27 New Issue (P/O D412-664-201) 06.03.09 Tolerance for 5.237 was +/-0.001 07.05.08 Dwg Rev. updated	05.04.27         New Issue         (P/O D412-664-201)         KJ/JLM           06.03.09         Tolerance for 5.237 was +/-0.001         KJ/JLM           07.05.08         Dwg Rev. updated         KJ/JLM



	ULTRA SONIC MEASURMENTS									
Side	LOCATION on tube	R1 \267	R2 - 38	R3	R4					
		.250	. 3 85							
Α		2/2	364							
		.217	.367							

 			٦.
,260	.391		1
.256	,383		1
,241	· 350		1
	,260 .256 ,241	,260 .391 .256 .383 .241 .356	, 260 . 256 . 241 . 356

.249 1369

Part number Batch number l∕leasured By